



# **Control Your Cloud Deployments**

Secure SQL / Storage / Encrypted File Sharing  
Secure Computation Environments

# CipherRack™



 **Private  
Machines**

Everything moves to the cloud

Once you move you lose control

At-rest or in-transit encryption is not enough

Your workload is managed by somebody else and run in a foreign environment

To process your data, your encryption keys are exposed



Time to regain control

All processing is private

Nobody else can access your data

Do not have to trust cloud provider

Protect software integrity

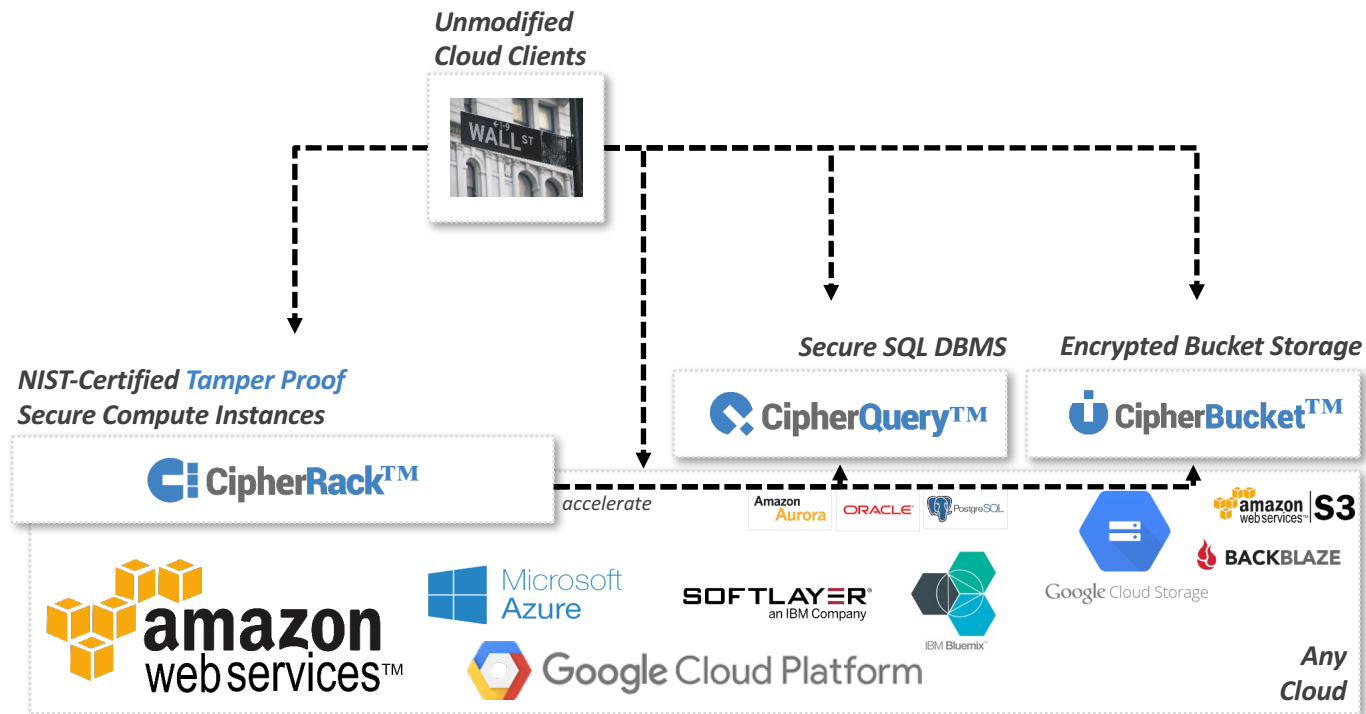
Protect data integrity

# Overview Video

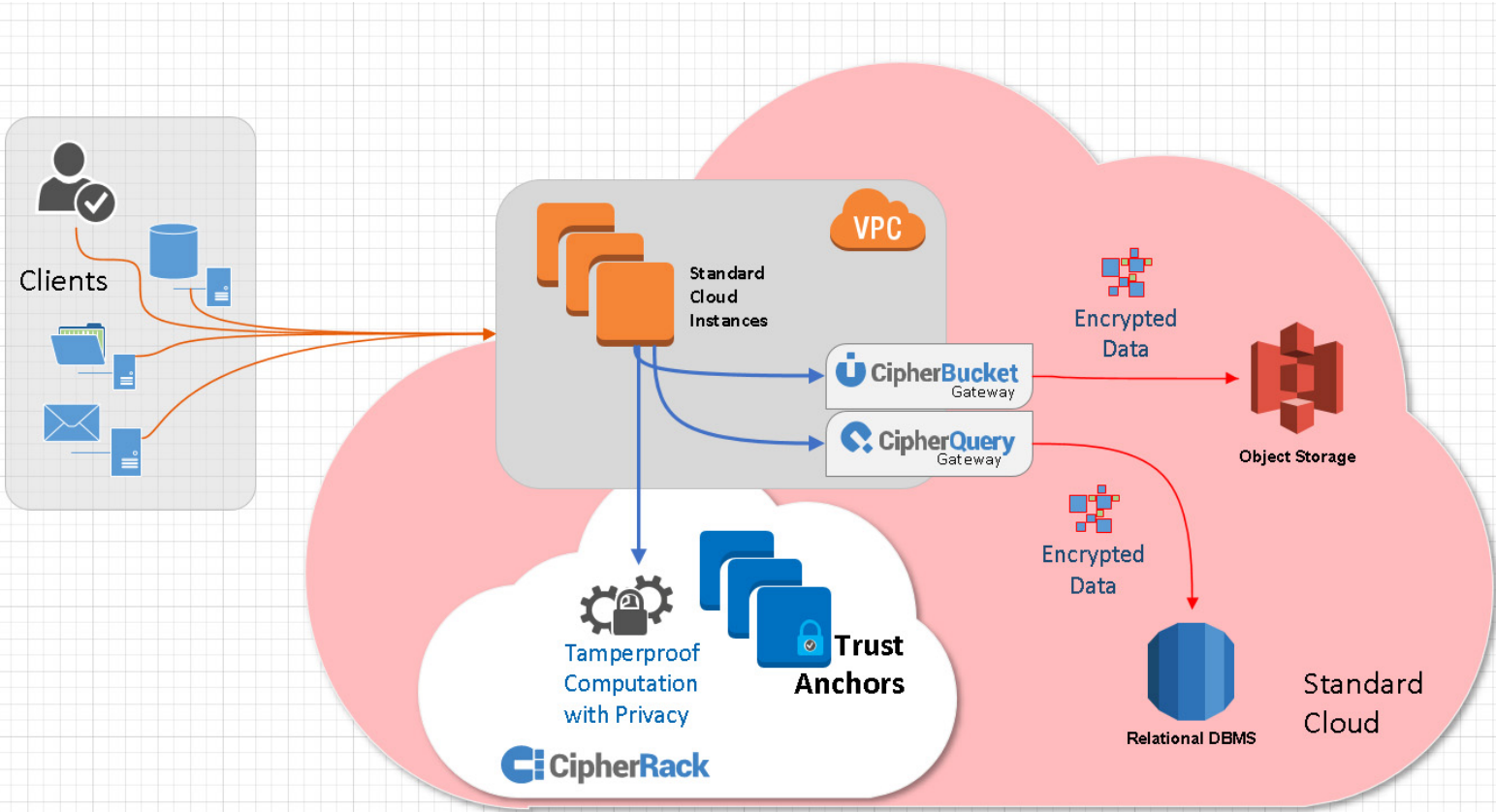
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<https://privatemachines.com>

# Overview



# Sample Deployment

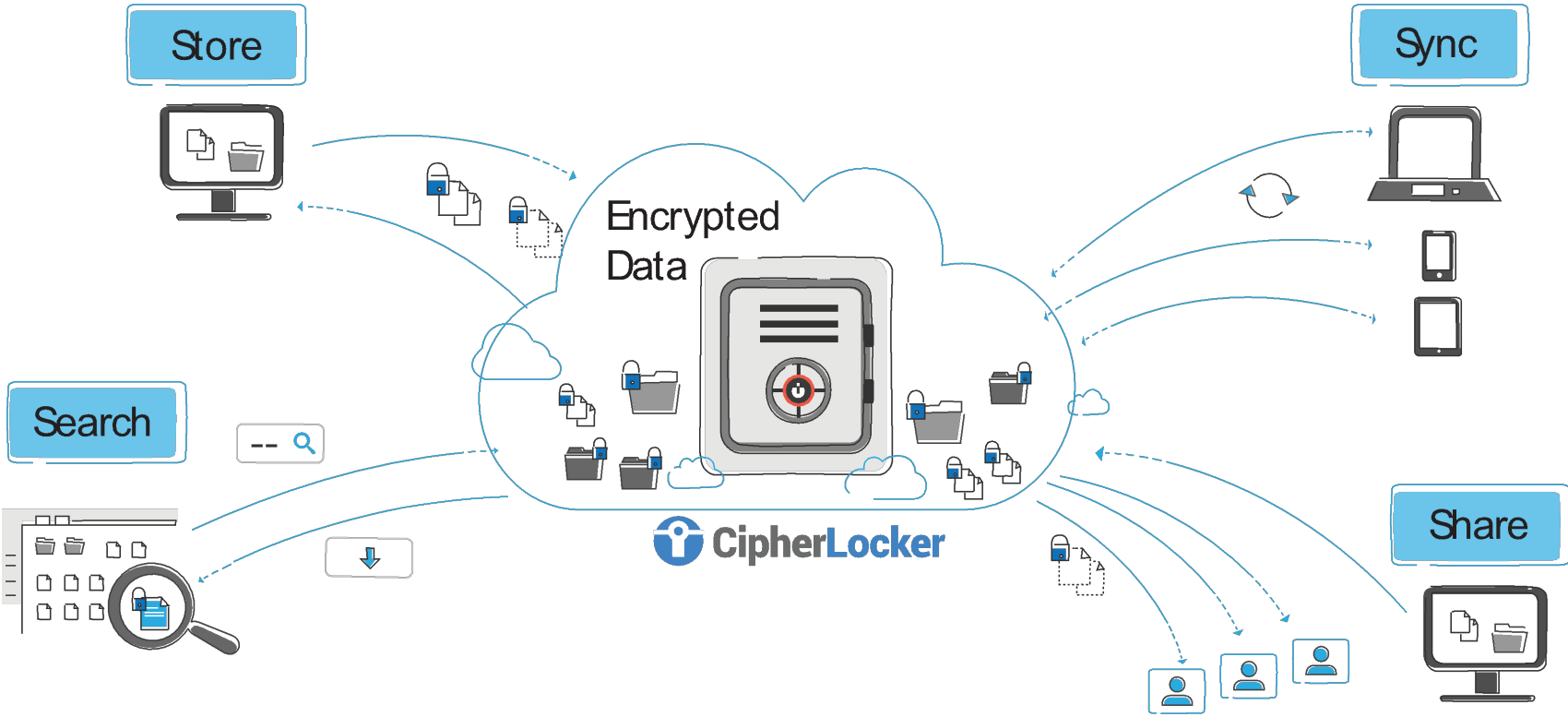




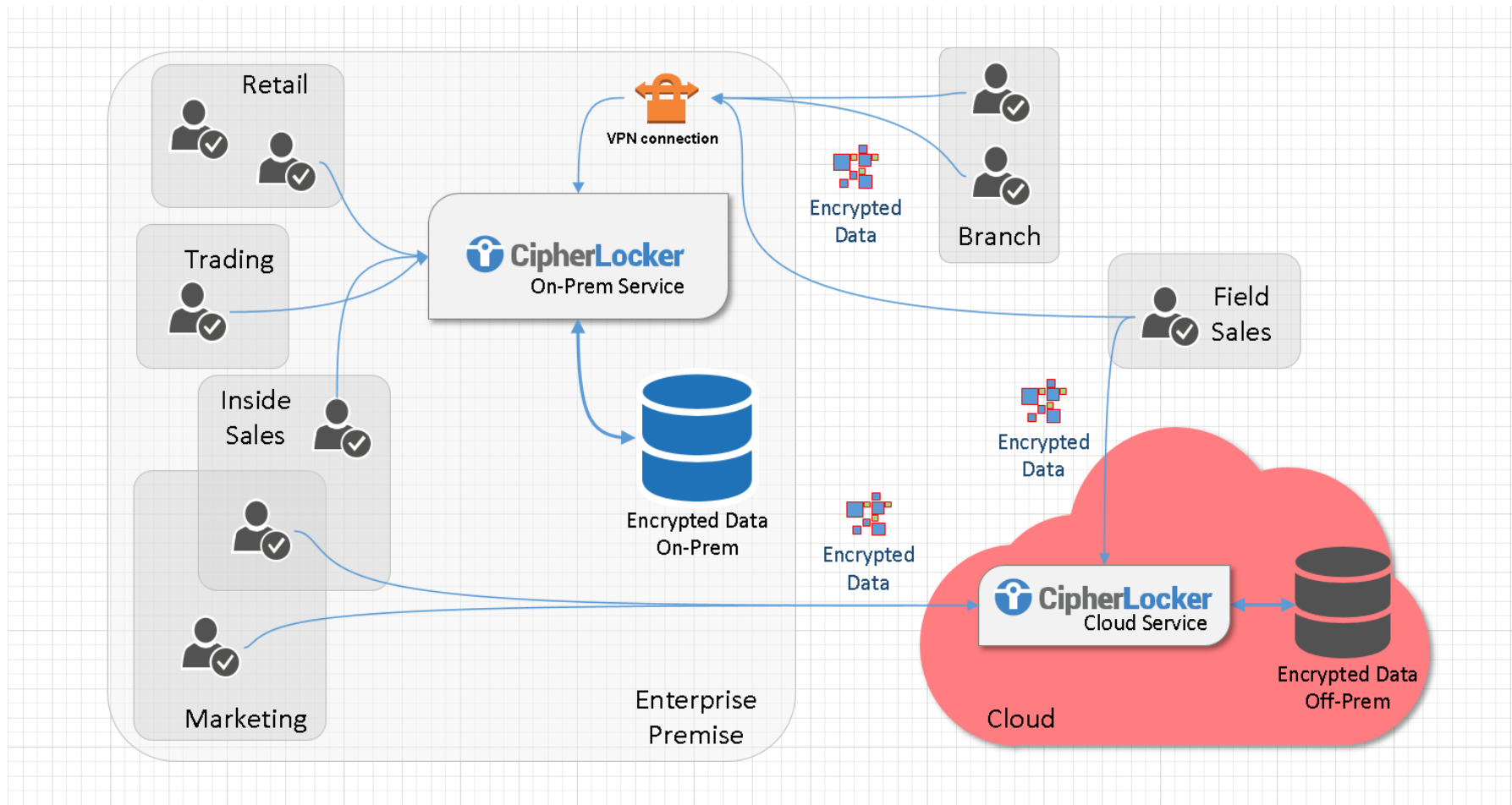
**Free.** Supported by the National Science  
Foundation Transition to Practice Program



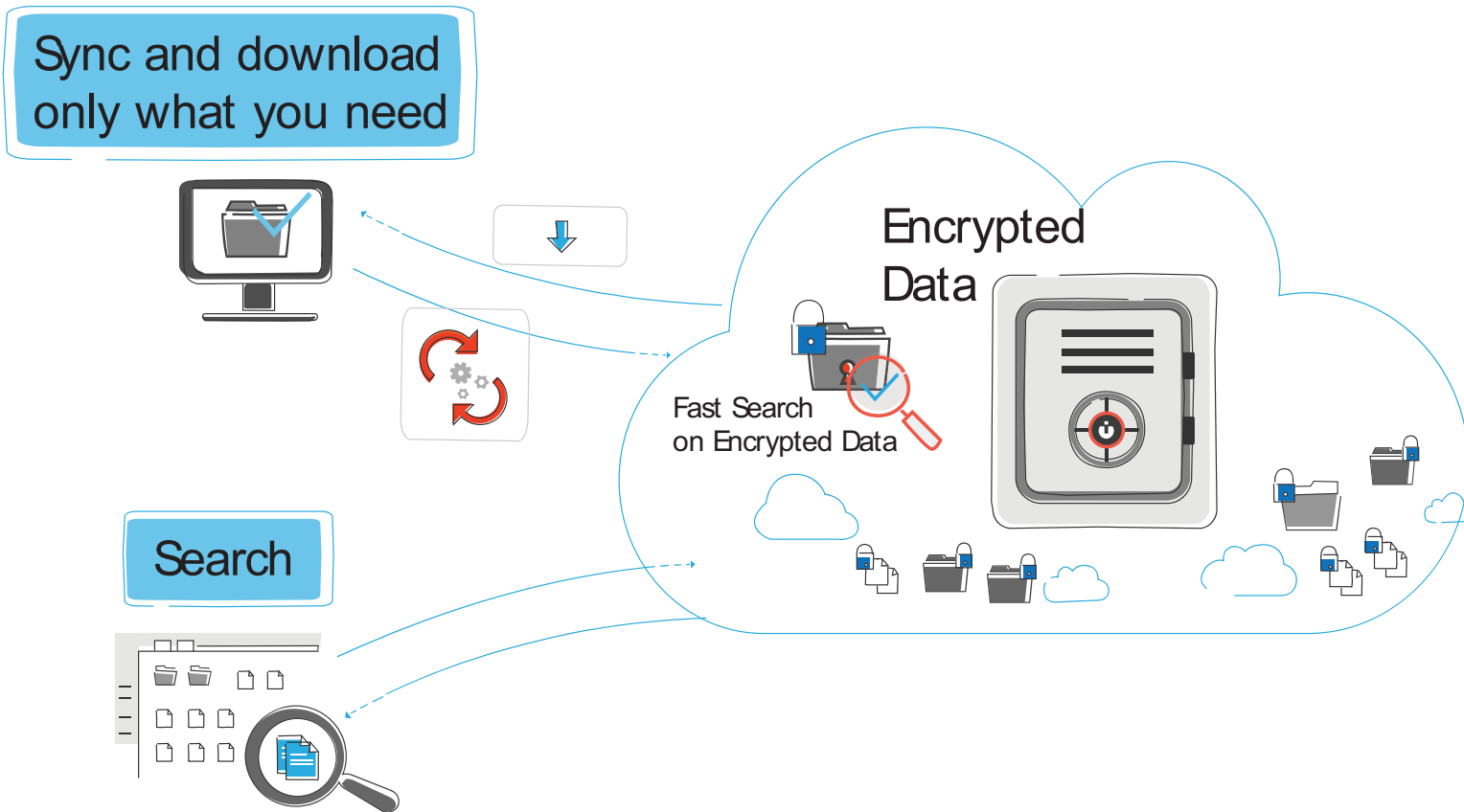
# CipherLocker™: Encrypted File Sharing



# Deployment



# Encrypted Data Search Portal



# Feature Comparison



	CipherLocker™	Dropbox	Box	Tresorit	Boxcryptor	SpiderOak
Search In Encrypted Files Without Downloading	●	✗	✗	✗	✗	✗
Cloud Absolutely Never Sees Your Data	●	✗	✗	⊙	⊙	⊙
Cloud Never Sees Encryption Keys	●	✗	✗	⊙	⊙	⊙
Secure Public Key Exchange	●	✗	✗	✗	✗	✗
Share-Wide Integrity Protection	●	✗	✗	✗	✗	✗
Sharing Secure Against Cloud Insiders	●	✗	✗	✗	✗	✗
Grouping/Teaming Secure Against Cloud Insiders	●	✗	✗	✗	✗	✗
Source-Code Available for Evaluation	●	✗	✗	✗	✗	✗
Cryptographic Protocols Publicly Documented	●	✗	✗	⊙	⊙	⊙
Ranked Search	●	●	●	✗	✗	✗
Semantic Security	●	✗	✗	⊙	⊙	⊙
<b>Zero-Leak™</b>	●	✗	✗	⊙	⊙	⊙
Redundancy Across Multiple Clouds	●	✗	✗	✗	✗	⊙

The logo for Private Machines is centered on a white background. It consists of a blue rounded square containing a white square icon to the left of the text "Private Machines".

**Private  
Machines**